



Features

- ⚙️ **GPS L1, BeiDou B1, GLONASS L1, SBAS**
- ⚙️ **Scalable Sub-meter to Centimeter Positioning**
- ⚙️ **Ideal for GIS Applications**
- ⚙️ **Compact Rugged Design**
- ⚙️ **Multiple Data Collection Device Choices via Bluetooth Connection**

IDEAL FOR GIS APPLICATIONS

As a rugged, compact, wearable GNSS receiver, the G100 has reliable performance in a wide range of applications, including survey and mapping, natural resource utilities and government water management and so on.

IMPROVED GNSS POSITIONING

The G100 GNSS receiver can deliver scalable sub-meter to centimeter positioning. Integrated with a high-performance SinoGNSS OEM board that tracks GPS L1, BeiDou B1, GLONASS L1 and SBAS, the G100 is a good choice for your GIS solution.

ENHANCED BLUETOOTH CONNECTIVITY

Integrated with Bluetooth module, the G100 can be easily connected to any device with any operating system--from Android, iOS to Windows Mobile, enhancing efficiency and productivity in the field.

EASE OF USE

With dimension of 137 mm × 72 mm × 50.4 mm and weighing less than 350 g, the G100 can go wherever you go. According to your working demands, the receiver can be mounted on a pole, carried in your pocket, or attached to a belt. Furthermore, certified IP67 rating and all-day battery life ensure its stable working even in harsh environments.

Signal Tracking

- 200 channels
- GPS: L1
- BeiDou: B1
- GLONASS: L1
- SBAS: WAAS, EGNOS, MSAS, GAGAN

Performance Specifications

- Cold start: <50 s
- Warm start: <45 s
- Signal reacquisition: <3 s
- RTK Initialization time: typically <10 s
- Initialization reliability: typically >99.9%

Positioning Specifications

Mode	Accuracy
Post Processing	2.5 mm + 1 ppm Horizontal 5 mm + 1 ppm Vertical
Single Baseline RTK	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS

Communications

- Dual-mode Bluetooth
- Support Ntrip protocol
- 1 serial port (9 pin Fischer), 1 Fischer connector
- 3 LEDs (indicating Power, Satellite Tracking and Bluetooth)

Data Format

- Correction data I/O: RTCM 2.X, 3.X, CMR(GPS only), CMR+(GPS only)
- Position data output:
 - ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GGK
 - Extended NMEA-0183 BDGGA, GPNTN, GPCDT, GPHPR

- ComNav Binary update to 100 Hz (compatible with major brands)

Physical

- Size(L x W x H): 137 mm × 72 mm × 50.4 mm
- Weight: <0.35 kg (with 1 battery inside)

Environmental

- Operating temperature: -20 °C to +60 °C
- Storage temperature: -30 °C to +70 °C
- Waterproof and dust-proof: IP67
- Shock and vibration: Survive a 1.5m nature drop onto concrete

Electrical

- Battery capacity : 3400 mAh
- Power consumption: 1.6 W
- Working time: Over 9 h continuous work
- Charging time: 2.5 h

Optional accessories

- AT100 GNSS antenna

Software

- ComNav Compass Receiver Utility software

Specifications subject to change without notice.

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